

Application No. 10/652,817  
Response to office action mailed February 3, 2006

### AMENDMENTS TO THE CLAIMS

This listing of claims replaces, without prejudice, all previous versions and listings of claims in this application.

1. (Previously presented) A chip bin having an upper part through which chips are arranged to fall freely from an inlet;

a lower part within which chips are arranged to remain until they are removed by a feeding device downstream;

a level sensor arranged to detect a level of said chips between said upper part and said lower part; and

steam orifices above said level sensor arranged to strike chips falling from said inlet with steam.

2. (Original) A chip bin according to claim 1, comprising upwardly angled steam orifices arranged to direct steam upward at said chips and thereby to delay the falling of the chips.

3. (Original) A chip bin according to claim 2, comprising steam orifices angled tangentially.

4. (Previously presented) A chip bin according to claim 1, comprising at least one conical baffle projecting from a wall of said bin to guide the falling chips away from the wall of the bin, and steam orifices disposed below said at least one baffle and arranged to direct steam at chips falling past said baffle in said upper part of said chip bin.

5. (Previously presented) A chip bin having an upper part through which chips are arranged to fall freely from an inlet;

a lower part within which chips are arranged to remain until they are removed by a feeding device downstream;

a level sensor arranged to detect a level of said chips between said upper part and said lower part; and

steam orifices above said level sensor arranged to strike chips falling from said inlet with steam;

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- 2 -

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Application No. 10/652,817  
Response to office action mailed February 3, 2006

further comprising at least one conical baffle projecting from a wall of said bin above said level sensor, steam orifices disposed below said at least one baffle and above said level sensor and arranged to direct steam at chips falling past said baffle, and an exhaust pipe opening out of a space under said at least one baffle.

6. (Previously presented) A chip bin according to claim 1, comprising at least two treatment zones in said upper part of said chip bin through which said chips fall successively, each with steam orifices arranged to direct steam onto said falling chips.

7. (Previously presented) A chip bin according to claim 1, comprising a temperature sensor in said lower part of said chip bin arranged to monitor the temperature of chips and to regulate the supply of steam to said upper part of said chip bin in order to regulate said temperature.

8. (Original) A chip bin according to claim 1, further comprising a source of cooking liquor arranged to supply said cooking liquor into said lower part of said chip bin.

9-13. (Canceled)

14. (Previously presented) Apparatus for digesting wood chips to produce pulp, comprising:

a digester; and

a chip bin having a lower part within which chips are arranged to remain until they are transferred to said digester, the chip bin having an upper part through which chips are arranged to fall freely from an inlet to said lower part, a level sensor arranged to detect a level of chips in the bin, and steam orifices arranged above said level sensor to strike chips falling from said inlet with steam.

15. (Original) Apparatus according to claim 14, wherein said chip bin comprises upwardly angled steam orifices arranged to direct steam upward at said chips and thereby to delay the falling of the chips.

16. (Original) Apparatus according to claim 15, wherein said chip bin comprises steam orifices angled tangentially.

Application No. 10/652,817  
Response to office action mailed February 3, 2006

17. (Previously presented) Apparatus according to claim 14, wherein said chip bin further comprises at least one conical baffle projecting from a wall of said bin to guide the falling chips away from the wall of the bin, and steam orifices disposed below said at least one baffle and arranged to direct steam at chips falling past said baffle in said upper part of said chip bin.

18. (Original) Apparatus according to claim 17, wherein said chip bin further comprises an exhaust pipe arranged to extract gases from a space under said at least one baffle.

19. (Previously presented) Apparatus according to claim 14, wherein said chip bin comprises at least two treatment zones in said upper part of said chip bin through which said chips fall successively, each with steam orifices arranged to direct steam onto said falling chips.

20. (Previously presented) Apparatus according to claim 14, wherein said chip bin further comprises a temperature sensor arranged in said lower part of said chip bin to monitor the temperature of chips and to regulate the supply of steam to said upper part of said chip bin in order to regulate said temperature.

21. (Original) Apparatus according to claim 14, further comprising a source of cooking liquor for said digester, wherein said source is arranged to supply said cooking liquor into said lower part of said chip bin.

22. (Previously presented) Apparatus for digesting wood chips to produce pulp, comprising:

a digester; and

a chip bin having a lower part within which chips are arranged to remain until they are transferred to said digester, said chip bin having an upper part through which chips are arranged to fall freely from an inlet to said lower part, and including:

steam orifices arranged to supply steam to said upper part of said chip bin;

a temperature sensor below said steam orifices to monitor the temperature of chips; and

Application No. 10/652,817  
Response to office action mailed February 3, 2006

a control unit responsive to said temperature sensor to regulate the supply of steam to said upper part of said chip bin in order to regulate said temperature.

23-30. (Canceled)

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